

WHAT IS CLAIMED IS:

1. A fixing apparatus for fixing a toner image on a recording material by heat, having:

a pair of rotary members having a heat
5 generating member, and rotatable in contact with each other;

electric power supply control means for
controlling electric power supply to the heat
generating member so that a temperature of at least
10 one of the rotary members may become a set
temperature; and

rotation time setting means for setting a time
for which said electric power supply control is
effected after a shift from a warming-up operation to
15 a fixing capable state and the pair of rotary members
are rotated continuedly from rotation during the
warming-up operation, on the basis of a time of the
warming-up operation.

20 2. A fixing apparatus according to Claim 1,
wherein a warmup time is a time from the start of the
electric power supply to the heat generating member
until shift is made to the fixing capable state.

25 3. A fixing apparatus according to Claim 1,
wherein a warmup time is a time from the closing of a
power switch until shift is made to the fixing

capable state.

4. A fixing apparatus according to Claim 1,
wherein when a warmup time becomes long, the rotation
5 time setting means sets the rotation time long.

5. A fixing apparatus according to Claim 1,
wherein the electric power supply control means
controls the electric power supply to the heat
10 generating member on the basis of an output of a
temperature detecting member for detecting the
temperature of the rotary member.

6. A fixing apparatus according to Claim 1,
15 wherein when during the warming-up operation, the
temperature of said rotary member reaches a preset
temperature, an image forming capable state is
brought about.

20 7. A fixing apparatus according to Claim 1,
wherein the electric power supply control means
controls electric power supply during rotation by
rotation control means so that the temperature of the
rotary member may become a set temperature during a
25 fixing capable state.

8. A fixing apparatus according to Claim 1,

wherein the pair of rotary members comprise a fixing rotary member for fixing the toner image on the recording material, and a pressure rotary member brought into pressure contact with the fixing rotary member to thereby form a nip part for nipping and conveying the recording material.

9. A fixing apparatus according to Claim 8, wherein the pressure rotary member has an elastic layer.

10. A fixing apparatus according to Claim 8, wherein the fixing rotary member has an elastic layer.

11. A fixing apparatus for fixing a toner image on a recording material by heat, having:

a coil for producing a magnetic field;

a pair of rotary members having a rotatable rotary member for generating heat by an eddy current produced by the magnetic field;

electric power supply control means for controlling electric power supply to the coil so that a temperature of at least one of the rotary members may become a set temperature; and

rotation time setting means for setting a time for which said electric power supply control is effected after a shift from a warming-up operation to

a fixing capable state and the pair of rotary members are rotated continuedly from rotation during the warming-up operation, on the basis of a time of the warming-up operation.

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12. A fixing apparatus according to Claim 11, wherein a warmup time is a time from the start of the electric power supply to the heat generating member until shift is made to the fixing capable state.

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13. A fixing apparatus according to Claim 11, wherein a warmup time is a time from the closing of a power switch until shift is made to the fixing capable state.

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14. A fixing apparatus according to Claim 11, wherein when a warmup time becomes long, the rotation time setting means sets the rotation time long.

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15. A fixing apparatus according to Claim 11, wherein the electric power supply control means controls the electric power supply to the heat generating member on the basis of an output of a temperature detecting member for detecting the

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temperature of the rotary member.

16. A fixing apparatus according to Claim 11,

wherein when during the warming-up operation, the temperature of said rotary member reaches a preset temperature, an image forming capable state is brought about.

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17. A fixing apparatus according to Claim 11, wherein the electric power supply control means controls electric power supply during rotation by rotation control means so that the temperature of the rotary member may become a set temperature during a fixing capable state.

18. A fixing apparatus according to Claim 11, wherein the pair of rotary members comprise a fixing rotary member for fixing the toner image on the recording material, and a pressure rotary member brought into pressure contact with the fixing rotary member to thereby form a nip part for nipping and conveying the recording material.

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19. A fixing apparatus according to Claim 18, wherein the pressure rotary member has an elastic layer.

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20. A fixing apparatus according to Claim 18, wherein the fixing rotary member has an elastic layer.